

Reports from the interior of Virginia, from Wisconsin, Iowa and Indiana, state that in its relation to agriculture the month has been very dry and hot, but that cool nights and heavy dews have prevailed.

VI.—THE WINDS.

(1.) *In general*.—The winds most frequently observed are shown by the arrows on the accompanying chart, from which it is evident that southeasterly winds predominated on the Gulf and South Atlantic coasts, but southerly winds in the valley of the Mississippi river and its tributaries. Westerly winds have predominated in New England, and west to northwest winds over the Lake region. Northwest winds have prevailed at the summits of Mt. Washington and Pike's Peak.

(2.) *Strong winds*.—The maxima of hourly velocity of winds recorded at each Signal station, without regard to the direction or the time of day, are as follows: Mt. Washington, 88 miles; Pike's Peak, 60 miles; St. Paul, 50 miles; Kcokuk, Omaha, Denver, Indianola and New York, 48 miles; Breckenridge, Duluth, Fort Sully, Santa Fé, Philadelphia, Toledo, Squan Beach and Long Branch, 45 miles.

In general the maximum hourly velocity has been least throughout the Atlantic and Gulf States, and greatest in the Northwest, where numerous violent local wind-storms have occurred.

The dates on which strong winds were most generally observed were—May 1st, in the Western Territories and Northwest; May 8th, in the Western Territories and Northwest; May 29th, in the Western Territories and Northwest; May 25th, in the Lake region, Middle and Eastern States; May 11th, on the Middle Atlantic coast.

VII.—VERIFICATION OF PREDICTIONS.

(1.) *Probabilities* —The critical comparison between the separate items of the published tri-daily probabilities and the subsequent weather reports, shows that on the average, during the month, 84½ per cent. of the predictions have been well verified.

VIII.—RIVERS AND NAVIGATION.

(1.) *Opening of Harbors, &c.*—The last traces of ice in harbors and lakes are reported at Traverse City, Michigan, on the 3d; at Mt. Desert, Maine, on the 6th; at Buffalo and Duluth on the 9th. The Erie Canal was opened on the 5th. An unusually high tide is reported at Indianola, Texas, on the 29th. Navigation is reported as beginning at Duluth on the 4th, and Traverse City on the 7th.

(2.) *Heights of Rivers*.—The general condition of the rivers will be found from the accompanying table, which gives the dates of the maximum and minimum heights of water: